PRÁCTICA: SUMA DE VECTORES

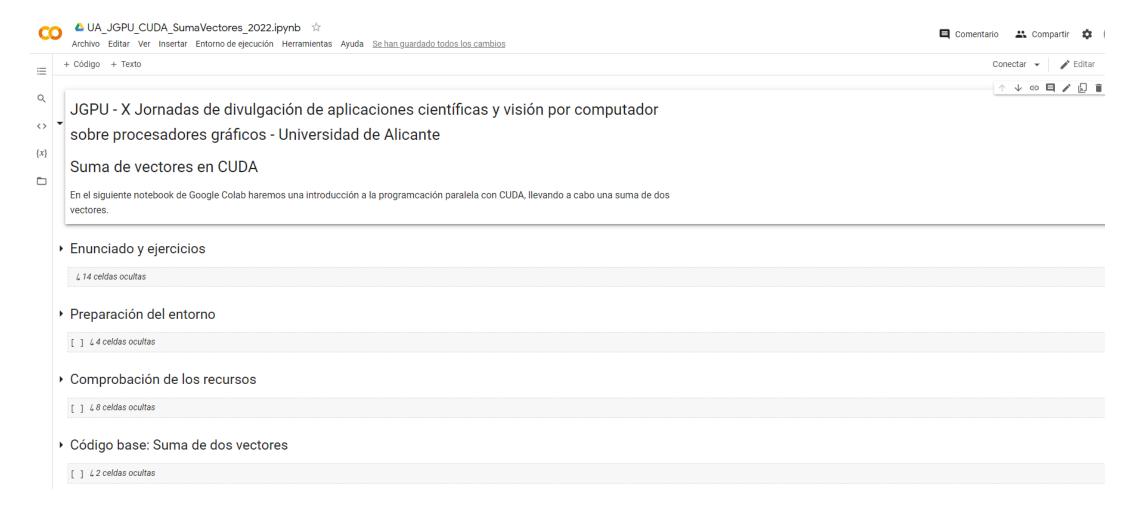
X JORNADAS DE DIVULGACIÓN DE APLICACIONES CIENTÍFICAS Y VISIÓN POR COMPUTADOR SOBRE PROCESADORES GRÁFICOS

UNIVERSIDAD DE ALICANTE

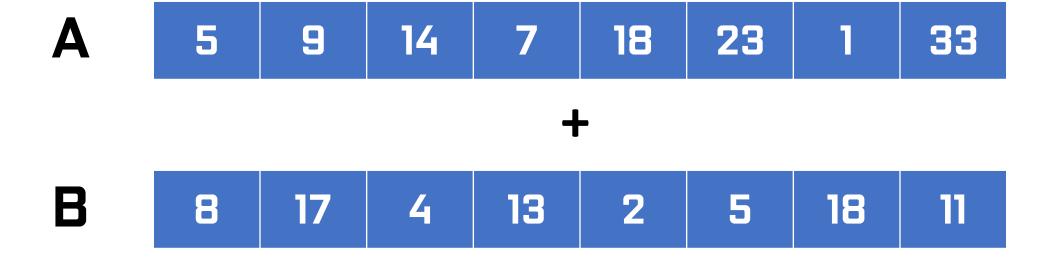
Pablo Martínez-González <pmartinez@dtic.ua.es>
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Albert García-García <agarcia@dtic.ua.es>
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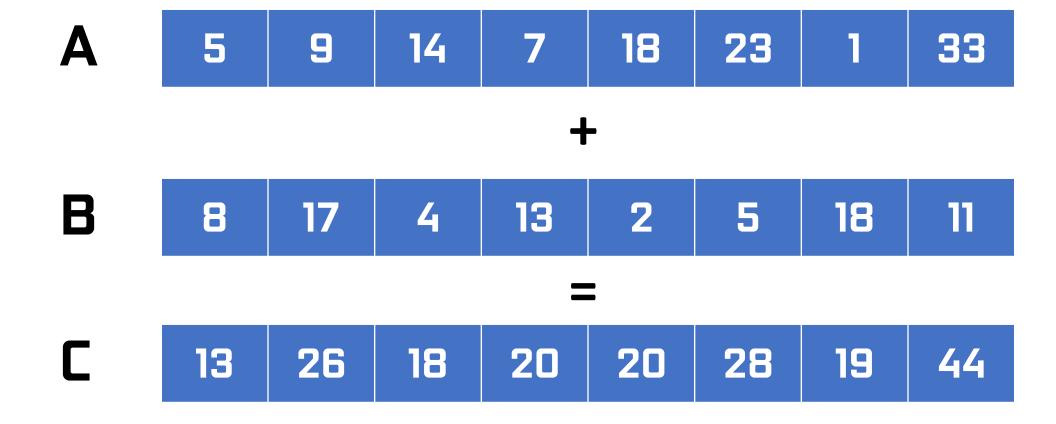
SUMA DE VECTORES

GOOGLE COLAB NOTEBOOK



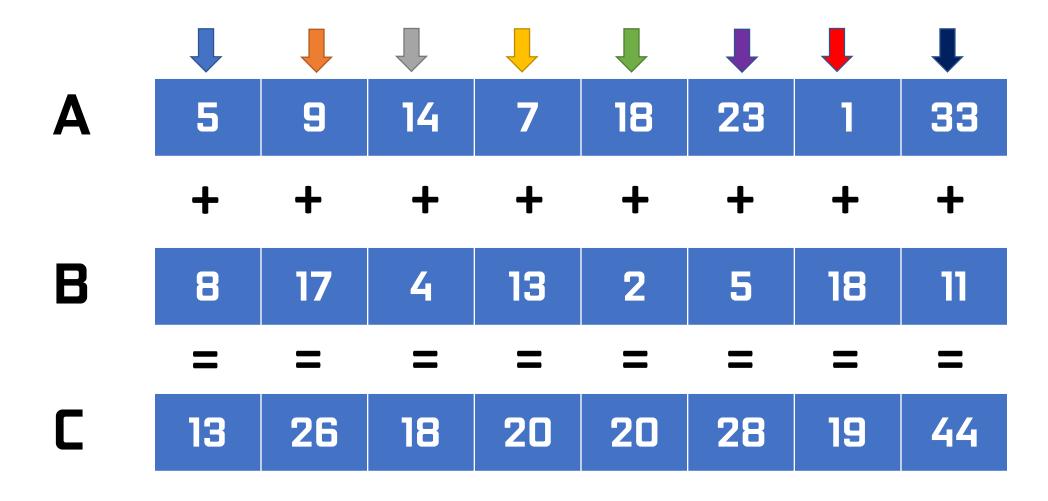






A	5	9	14	7	18	23	1	33
	+	+	+	+	+	+	+	+
В	8	17	4	13	2	5	18	11
		=						
	13	26	18	20	20	28	19	44

A	5	9	14	7	18	23	1	33
	+	+	+	+	+	+	+	+
В	8	17	4	13	2	5	18	11
	=	=	=	=	=	=	=	=
	13	26	18	20	20	28	19	44



SUMA DE VECTORES



HOST (CPU)

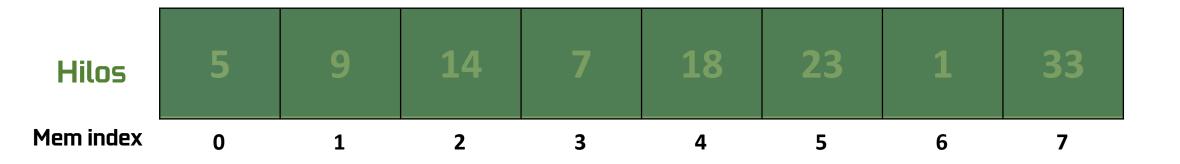


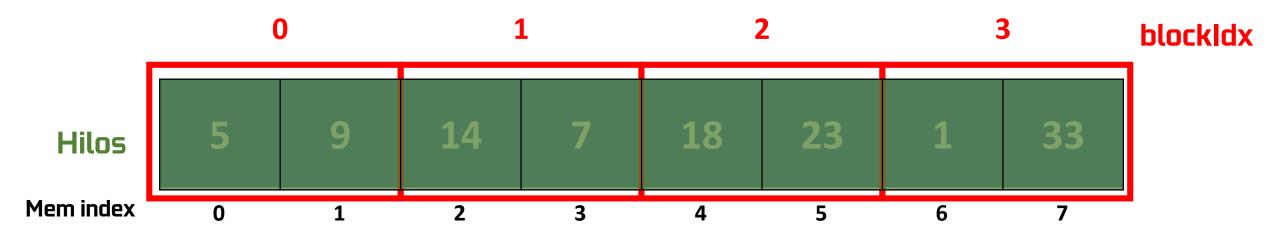
DEVICE (GPU)

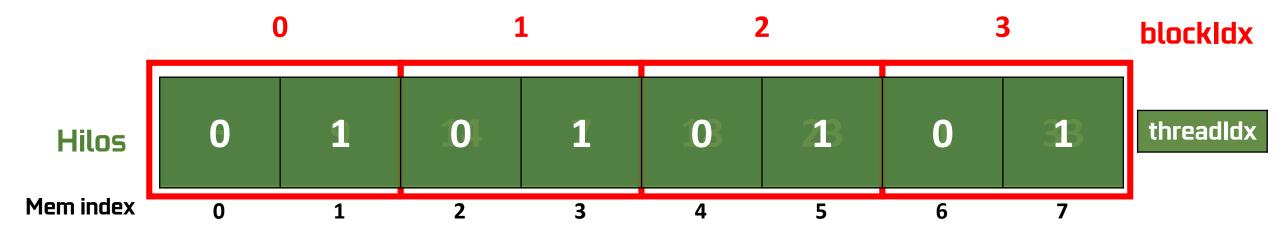
CPU	GPU					
cudaSe	Reserva de recursos					
malloc	cudaMalloc	Reserva de recursos				
cudaM	Transferencia					
ker	Ejecución					
cudaM	cudaMemcpy					
free	Liberación de recursos					
cudaDev	Liberation de retursos					

	5	9	14	7	18	23	1	33
Mem index	0	1	2	3	4	5	6	7

	5	9	14	7	18	23	1	33
Mem index	0	1	2	3	4	5	6	7
Hilos								

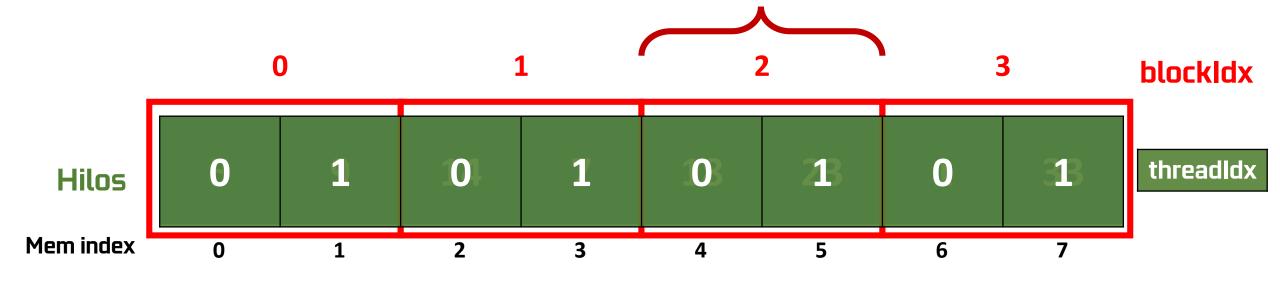




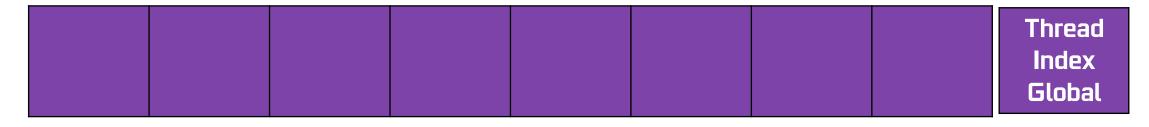






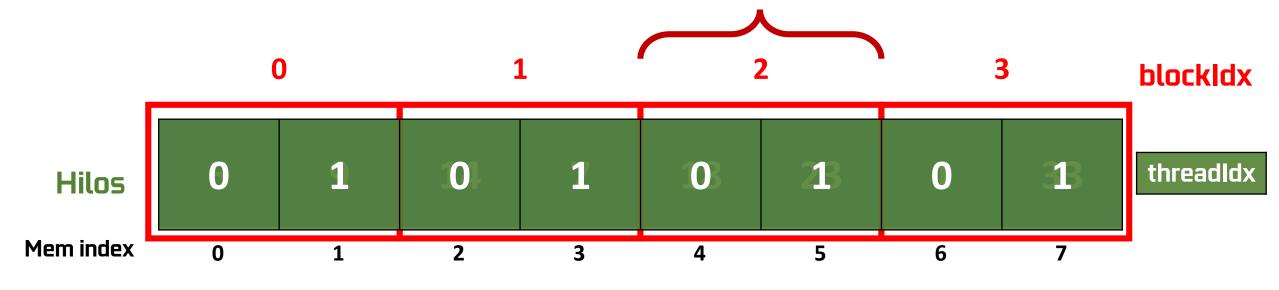


blockDim * blockIdx + threadIdx









blockDim * blockIdx + threadIdx

0	1	2	3	4	5	6	7	Thread Index Global
---	---	---	---	---	---	---	---	---------------------------

GRACIAS POR LA ATENCIÓN

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